POGRERNALA.

GORSKIY, Nikolay Nikolayevich; GORSKAYA, Vera Ivanovna; SHAIAGINA,
Valentina Kazimirovna; POGREBNAYA, L.L., red.; MURASHOVA, N.Ya.,
tekhn.red.

[German-Bussian dictionary of oceanography] Nemetako-russkii okanografichaskii slovar'. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry,
grafichaskii slovar'. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry,
(German language-Dictionaries-Bussian)
(Geanography-Dictionaries)

BUNIN, D.A.; DANILYUK, T.I.; PERESETSKIY, A.Z.; RAPPOPORT-PALAGUTA, B.N.;
TAVROVSKAYA, A.F.; SHUBIN, A.A.; MANOLE, M.G., redsktor; POGREBNAYA,
L.L., redsktor; MURASHOVA, N.Ya., tekhnicheskiy redsktor

[German-Russian railroad dictionary] Nemetsko-russkii zheleznodorozhnyi slovar'. Sost. D.A. Bunin i dr. Moskva, Gos. izd-vo tekhnikoteoret. lit-ry, 1957. 532 p.

(German language-Dictionaries-Russian)

(Railroads-Dictionaries)

MEL'TSER, Yevgeniya Mikhaylovna, kand.filol.nauk; ANDRONNIKOVA, Yelena
Mikhaylovna; KNYAZYATOVA, Lyudmila Ivanovna; GRABOVSKIY-ZKONOPNITS,
V.A., kand.tekhn.nauk, red.; POGREBNAYA, L.L., red.; MURASHOVA,
N.Ya., tekhn.red.

[German-Russian dictionary of the paper industry] Nemetsko-russkii slovar' po tselliulozno-bumazhnomu proizvodstvu. Sostavili: E.M. Mel'tser, E.M.Andronnikova i L.I.Kniaziatova. Rad. V.A.Grabovskii-Zkonopnits. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 235 p. (MIRA 12:4)

(German language--Dictionaries--Russian) (Paper industry--Dictionaries)

POGREBNAYA, L. P.

ROZEN, S.Ya.. Prinimali uchastiye: SEMEKA, V.A., kand.tekhn.nauk; MAKSI-MADZHI, A.I., kand.tekhn.nauk; MEMCHIKOV, V.I., kand.tekhn.nauk; KHOMYAKOV, N.M., doktor tekhn.nauk. POGREBHAYA, L.L., red.; BRUDNO, K.F., tekhn.red.

[German-Russian dictionary of water transportation] Nemetakorusskii slovar' vodnogo transporta. Moskva, Gos.izd-ve fizikomatem.lit-ry, 1959. 622 p. (MIRA 13:3)

(German language-Dictionaries-Russian)

(Shipping-Dictionaries)

GRABOV, Isaak Naumovich; AKKEHMAN, D.A., red.; BARANOV, A.M., red.;
BOCOMOLOV, B.A., red.; GUSEV, N.P., red.; MURONETS, I.I.,
red.; POGREMAYA, L.L., red.; KKYUCHKOVA, V.N., tekhn. red.

[German-Russian dictionary on welding] Nemetsko-russkii slovar'
po svarke. Moskva, Glav.red.inostr. nauchno-tekhn.slovarei
Fizmatgiza, 1962. 246 p. (MIRA 15:7)

(German language—Dictionaries—Russian)

(Welding—Dictionaries)

7.

L 26723-66 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AR6011876 SOURCE CODE: UR/0081/65/000/016/S030/S031

AUTHOR: Vyakhirev, D. A.; Zabotin, K. P.; Zuyeva, Ye. M.; Troitskiy, B. B.; Vyshinskiy, N. N.; Nikolayeva, M. V.; Pogrebnaya, T. I.; Fomicheva, L. V.

TITIE: Gas chromotography study of impurities in methylmethacrylate and analysis of their effect on the process of polymerization

SOURCE: Ref. zh. Khimiya, Abs. 168214

TOPIC TAGS: methanol, methylmethacrylate, glycol, polymerization rate, molecular weight, monomer

ABSTRACT: With the use of the gas chromatography method on an INZ-600 brick with a selective liquid phase of polyethylene glycol 1000, it has been determined that the basic admixtures in industrial methylmethacrylate are dimethyl ether, methylformate, methylpropionate, methanol, methyl-3-methoxypropionate, and three unidentified substances. An investigation was made of the effect of supplementing the detected admixtures to methylmethacrylate on the polymerization rate and the molecular weight of the polymer obtained by standard methods in emulsion at 40C. It was shown that of the polymer obtained by standard methods in emulsion at 40C. It was shown that up to 2% methanol increases the polymerization rate and the molecular weight. Above 1% methylformate decreases the molecular weight and above 3% decreases the polymerization rate. Methylpropionate sharply decreases the molecular weight and the polymerization rate at a concentration of 0.5 to 1%. Acetaldehyde has no effect on the

<u>Card</u> 1/2

L 26723-6		· 					
7.00 1111 72							9
methylmethe decrease i	crylate to in the mole is a sharp	o a monomer ca ecular weight. drop of the p	uses an in Hydroqui	olecular weigh crease in the none, added to ion rate and t	polymerize the monou	tion rate over as the	and a inhibi- V.Kopylov.
SUB CODE:		SUBM DATE:	none/			•••	
							į
			•				i -
						•	; ; •
						•	
•					•		!
							,
1			:	••			
	•		•	•			
į	1				•		
Cord 2/2	6/						
						•	
							•

ZHUKHOVITSKIY, A.A.; TURKEL'TAUB, N.M.; MALYASOVA, L.A.; SHLYAKHOV, A.F.; NAUMOVA, V.V.; POGREBNAYA, T.I.

Chromatography without gas carriers. Zav. lab. 29 no.10:1162-1166 '63. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki i geokhimii.

ZAERODSKIY, A.G.; PSALOM, P.G.; POGREENAYA, V.F.

Obtaining feed yeasts from distard molasses. Spirt.prom. 29 no.2:32-39
163. (MIRA 16:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut spirtovoy i likero-vodochnoy promyshlennosti.

(Distilling industries—By-products) (Yeast)

ZABRODSKIY, A.G.; PSAIOM, P.G.; POGREBNAYA, V.F.

Separation of alcohol fermentation yeasts from nolasses stillage. Trudy UkrNIISP no.9:90-79 164.

(MTRA 17:10)

Finate Shiran, A.V.; Programaya, V.L.; EBK'YANCHES, S.V.

Scheatechness of some substituted persincal beneaches and Hammett's constants. Zear fiz.khim. 38 no.S12092 Ag (44.

1. Sibirskiy tekinci egisheskiy institut.

s/137/62/000/003/163/191 A160/A101

18.8310

在1915年中,

Rabkin, M. A.; Dorofeyev, D. S.; Torgovitskaya, S. B.; AUTHORS:

Pogrebnaya, Ye. S.

The protection of low-carbon steel by a metallized layer from TITLE:

stainless chrome-nickel steel

Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 13, abstract 3569. (Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1960, vyp. 6, 262 - 274) PERIODICAL:

To ascertain the protective action of a stainless steel sprayed on a non-alloyed low-carbon steel, determined were the corrosion rate and the electronic potentials of test pieces made from CT3 (St.3) steel and metallized with 1x18H9T (1x18N9T) steel. Plates from St.3 steel, each measuring 80x40x3 mm, were used as samples. Before spraying-on the stainless-steel layer, the pieces were etched in HCl and degreased with CCl4. Then the samples were coated with the stainless 1x18N9T steel. The whole surface of the sample, including its ends, were metallized. The protective action of the coating on the rate of dissolving of the plates was determined in aqueous solutions of H2SO4, HNO3 and HC1 with

Card 1/2

The protection of low-carbon steel by a

S/137/62/000/003/163/191 A160/A101

different concentrations. The electrode potentials of the pieces were measured in H₂SO₄ and HNO₃ solutions. The experiments yielded the following results: (1) The resistance of the metallized samples in HCl is lower than the resistance of a low-carbon steel. (2) The resistance of metallized samples in H₂SO₄ depends on the concentration of the latter. The maximum corrosion rate of metallized pieces is observed, in contrast to the samples made from St.3 steel, in a 15 % solution of H₂SO₄, i.e., the passivation of metallized pieces appears at a lower concentration of acid as compared to non-metallized samples. (3) The electrode potential of the metallized steel in H₂SO₄ is more positive than the electrode potential of the non-metallized steel, and grows with an increase in the concentration of acid. (4) The resistance of the metallized steel in HNO₃ is 3,000 times higher than the resistance of a non-metallized steel. (5) The higher the concentration of HNO₃ and the longer the duration of its action, the lower the corrosion rate of metallized samples. Compared to a low-carbon steel which passivates in a 60 - 80 % solution of HNO₃, the metallized pieces undergo passivation in a 30 % solution of HNO₃.

V. Tarisova

[Abstracter's note: Complete translation]

Card 2/2

POGREBNIKOV, M.M.; ROTSHTEYN, A.Ya.; TSIREL', V.S.

Studying and calculating variations in using nuclear resonance apparatus. Trudy VITR no.3:258-267 '61. (MIRA 15:7)

(Krasnovodsk region—Magnetic prospecting)

CIA-RDP86-00513R001341610016-8 "APPROVED FOR RELEASE: 06/15/2000

15-1957-3-2608

Referativnyy zhurnal, Geologiya, 1957, Nr 3, Translation from:

pp 6-7 (USSR)

Pogrebnov, N. I. AUTHOR:

The Middle and Upper Carboniferous of the Kuban'-TITLE:

Laba Region in the Northern Kavkaz (Caucasus) (Sredniy i verkhniy karbon Kubano-labinskaya rayona na

Severnom Kavkaze)

Tr. Labor. geol. uglya AN SSSR, 1956, Nr 6, pp 350-357 PERIODICAL:

The Middle Carboniferous rocks, which lie unconformably on Lower Carboniferous and older Paleozoic rocks, con-ABSTRACT:

sist of conglomerates and coarse-grained sandstones (piedmont facies), fine-grained and siliceous shales (lacustrine facies), coals and carboniferous shales (paludal facies), and also volcante formations. The author distinguishes sedimentary cycles (locally four in number), in which lacustrine-paludal formations subsequently give way to rocks of the piedmont facies and to volcanic rocks. This systematic arrangement is the

card 1/3

15-1957-3-2608

The Middle and Upper Carboniferous of the Kuban'-Laba Region in the Northern Kavkaz (Caucasus) (Cont.)

basis for the stratigraphic subdivision of the Middle Carboniferous, in which four series are differentiated (from the base
upward): C2, C2, C2, and C2. Studies of the lithology, petrography, and fossil plants confirm the preposed subdivision and
also the Westphalian age of the corresponding part of the section; the lower horizon of the Westphalian is missing. The
thickness of the Middle Carboniferous ranges from 400 m (Urup
River) to 600 to 700 m (Teberda River). The Upper Carboniferous
consists of sandstone-conglomerate beds, provisionally subdivided by the author into two series, C3 and C3. The total
thickness of the Upper Carboniferous rocks is 200 to 500 m. The
upper Paleozoic rocks are involved in the complex structures of
the Peredovy Range, in which the author has distinguished the
Glavnyy (Principal) anticline with a northwesterly trend. The
crest of this anticline is complicated by transverse uplifts and
downwarps. North of the Glavnyy anticline there occurs the Teberda syncline. Coal deposits are confined to the transverse
downwarps. The Labinskeye, Tolstobugorskoye, Kyafaro-Bogoslovskoye,
Marukh-Aksautskoye, and Teberdinskoye mestorozhdeniye (fields) were
2/3

Card 2/3

POGREBNOV, N.I.

Some problems of the regional stratigraphy and tectorics of the lower Don and Volga Valleys. Sov. gool. 7 no.8:158-162
Ag '64. (MERA 17:10)

1. Volgo-Ural*skoye geologicheskoye upravleniye.

POGREBNOV, N.I.; ZUBTSOVSKIY, V.N.; TOMKOVICH, I.I.

Some aspects of methods used in geological prospecting for coal in the buried eastern mection of the greater Donets Basin. Bazved.

i okh.nedr 22 no.12:23-26 D '56. (MLRA 10:2)'

1. Rostovskaya geologicheskaya ekspeditsiya.
(Donets Basin--Coal geology) (Prospecting)

POGREBNOV, N. I. Cand Geol-Min Sci -- "Central and Upper Carbon of the northern Caucasus. Geological structure, history of the formation of coal-bearing strata, and evaluation of the industrial prospects of coal deposits." Rostov-on-Don, 1961 (Min of Higher and Secondary Specialized Education RSFSR. Rostov State Univ). (KL, 4-61, 190)

-108-

POGREBNOV, N.P. [Pohrebonov, N.P.] Formation of coal seams in the Carboniferous of the Northern Caucasus. Geol. zhur. 19 no.5:82-85 '59. (Caucasus, Northern--Coal geology)

Profession, A.

Profession below the color of the color of the profession of the pro

TILICHENKO, A.G., kand. tekhn. nauk (Khabarovsk); POGREBNOY, A.K., inzh. (Khabarovsk); MAZUR, N.N., inzh. (Khabarovsk)

Use of electronic computers for the calculation of technical norms in operational work. Zhel. dor. transp. 46 no.1:78

(MIRA 17:8)

1. Nachal'nik sluzhby dvizheniya Dal'nevostochnoy dogi (for Pogrebnoy).

POGRIBNOY, Aleksey Yevtikhiyevich; KACHALKINA, E.A., redaktor; KIRSANOVA, tekhnicheskiy redaktor

[Dissemination of technical information in the club] Proizvodstvenno-tekhnicheskaia propaganda v klube. 2-oe perer. izd. [Moskva]
Izd-vo VTsSPS Profizdat, 1954. 87 p.

(Technical education)

POGREBNOY, A.Ye.

Improve the quality of scrap metal being supplied. Metallurg 5 no.9:34-35 S *60. (NIRA 13:8)

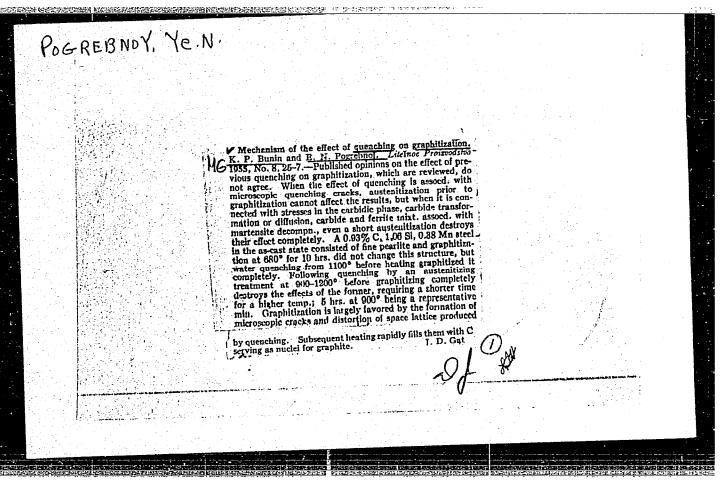
1. Machal'nik otdela sbyta i transporta Ukrglavvtormeta.
(Scrap metals)

BUNIN, K.P., POGREBIOY, Ta.N.

On the mechanism of the effect of tempering in the graphitization of steel. Dop. AN URSR no.5: 481-487 '55. (MIRA 9:3)

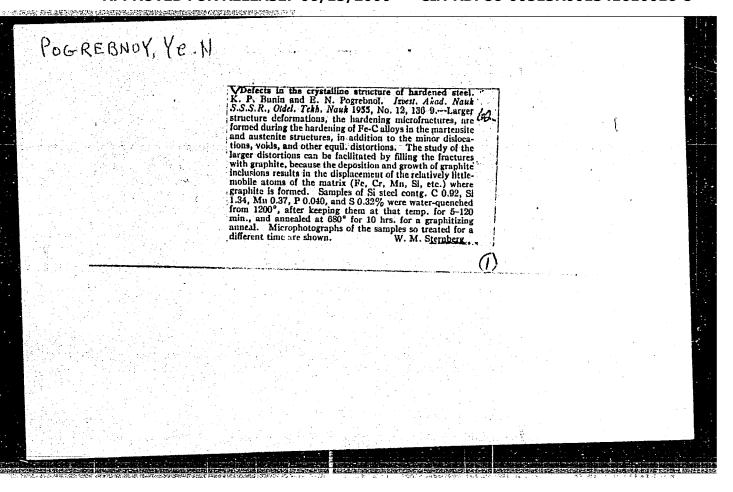
1. Chlen-korespondent AN URSR (for Bunin). 2. Dnipropetrovs'kiy metallurgiyniy institut ta Institut chornoi metallurgii AN URSR. (Steel--Hetallography)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341610016-8"



"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610016-8



"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610016-8

POGREBROY, E.N.

USSR/ Physics - Metallurgy

Card 1/1

Pub. 22 - 16/50

Authors

8 Bunin, K. P. and Pogrebroy, E. N.

Title .

t The effect of hardening their graphitization of ferrocarbon alloys

Periodical : DOK. AN SSSR 100/1, 61-63, Jan. 1, 1955

Abstract

Experiments were conducted to determine the effect of preliminary hardening of white cast iron on its graphitization. The effect obtained is connected with martensitic transformation of austenite. Seven USSR References (1952-1953). Illustrations.

Institution: The I. V. Stalin Dnepropetrovskiy Metallurgical Institute

Presented by: Academician G. V. Kurdyumo V. July 3, 1954

POGREBNOY, E. I.

"Investigation of the mechanism and kinetics of graphitization of tempered steel." Min Higher Education
Ukrainian SSR. Dnepropetrovsk Order of Labor Red Banner
Metallurgical Inst imeni I. V. Stalin. Dnepropetrovsk, 1956.
(Dissertation for the of Candidate in Technical Sciences).

SO: Knizhnaya letopis', No. 16, 1956

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341610016-8 出版的企业的证明是企业的创新的对象的企业的企业的企业的企业的企业的企业的企业的企业的企业。

sov/163-58-1-52/53 Pogrebnoy, E.N. The Effect of Silicon on the Graphitization of Previously - AUTHOR: Hardened Steel (O vliyanii kremniya na grafitizatsiyu predvari-TITLE: tel'no zakalennoy stali) Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 1, PERIODICAL: pp 275 - 278 (USSR)

The effect of silicon on the graphitization of previously hardened steel was investigated. The degree of graphitization was determined by the change in the density as well as by the micro-ABSTRACT: structure. Modifications of the density were found in the graphitization of hardened and not hardened silicon containing steels. It was found that the graphitization in hardened samples takes place more rapidly than in non-hardened samples. The degree of graphitization in hardened and non-hardened steels increases with the increase in the silicon content. The number of centers and the rate of graphitization increase rapidly after a previous hardening of the steels containing silicon. By the change in the

degree of graphitization of steels previously hardened at 1000 it may be seen that the rate of graphitization does not only depend on the silicon content but also on the temperature of

Card 1/2

The Effect of Silicon on the Graphitization of Previously Hardened Steel

SOV/163-58-1-52/53

hardening. A hardening of the steel at 1000° C has a greater effect on the number of centers and on the rate of graphitization than does a hardening at 1100° C. (The number of centers and the rate of graphitization depend strongly on the temperature of hardening.)

In the previously hardened steels the effect of silicon on the graphitization causes an acceleration of the increase in volume of the graphitization inclusions. In the formation of the nuclei of the graphitization centers the role played by silicon is of second order.

The rate of graphitization in hardened and non-hardened steels also depends to a high degree on the annealing temperature. The mechanism of the accelerated increase in volume of the graphite inclusions in hardened and non-hardened steels is discussed. Silicon accelerates the transport of the atoms at the boundaries of the nuclei and affects the form of the increasing graphite inclusions. There are 3 figures, 1 table, and 12 re-

Card 2/2

ASSOCIATION:

ferences, 12 of which are Soviet.

Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk

Metallurgical Institute)

SUBMITTED:

October 1, 1957

sov/163-58-3-44/49

AUTHORS:

Baranov, A. A., Bunin, K. P., Pogrebnoy, E. N.

TITLE:

On the Mechanism of the Influence of a Previous Deformation on the Graphitization of Steel (O mekhanizme vliyaniya predvaritel'-

noy deformatsii na grafitizatsiyu stali)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 3,

pp 258-260 (USSR)

ABSTRACT:

Investigations of the graphitization of steel show that the occurrence of microfissures and defects formed in the deformation

of the steel sample influence the graphitization process.

In the deformation of the perlite samples traces of microfissures occur after the deformation process. The deformation was carried out within 24 hours at 680°C. The degree of graphitization was traced by the alteration of the density and the microstructure. It was found that in deformed steels the graphitization process

takes place more rapidly than in the initial product. The formation and widening of the graphitization inclusions,

especially in the beginning of burning, begins with the occurrence of the cracks in the samples. The graphitization process is accelerated most by the occurrence of cracks in the deformed

Card 1/2

在2012年出版出版的12年18日的国家公司的主义是由12年12年12年12年12年12日,12年12年12日,12年12年12日,12年12日,12年12日,12年12日 12年12日 12年12年12日 12年12日 12年12年12日 12年12日 12年12年12日 12年12日 12年12年12日 12年12日 12年12年12日 12年12日 12年1

sov/163-58-3-44/49

On the Mechanism of the Influence of a Previous Deformation on the Graphitization of Steel

sample.

When storing the steel sample in the austenite state the influence of the previous deformation on the graphitization process is comparatively small. To completely remove this influence it is necessary to store the steel sample in an austenite state for

a longer period of time.

There are 3 figures and 13 references, 10 of which are Soviet.

ASSOCIATION:

Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk

Metallurgical Institute)

SUBMITTED:

October 1, 1957

Card 2/2

CIA-RDP86-00513R001341610016-8 "APPROVED FOR RELEASE: 06/15/2000

SOV-21-58-9-12/28

AUTHORS:

of the AS Warsuk, Baranov, Bunin, K.P., Corresponding Member

A.A. and Pogrebnoy, E.N.

Spheroidization, Coalescence and Graphitization of Cementite TITLE:

in Deformed Perlite (Sferoidizatsiya, koalestsentsiya i gra-

fitizatsiya tsementita v deformirovannom perlite)

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 9, PERIODICAL:

pp 961 - 965 (USSR)

The processes of spheroidization, coalescence and graphiti-ABSTRACT:

zation of eutectoid cementite are possible in steels and cast iron whose structure contains perlite. These processes are accelerated after a preliminary deformation. The mechanism of this acceleration has not been sufficiently clarified. Therefore, the authors undertook to investigate the effect of deformation upon these processes. The cast open-hearth steel of the following composition: 0.94% C, 0.99% Si, 0.56% Mn, 0.014% P and 0.029% S was used for the studies. As a result of microscopic investigations of annealed deformed perlitic silicon steel, it was established that spheroidization, coalescence and graphitization of cementite are considerably accelerated in the traces of sliding and creases,

in particular at the points of their intersection. This acce-

leration is explained by the facilitation of the motion of Card 1/2

CIA-RDP86-00513R001341610016-8 "APPROVED FOR RELEASE: 06/15/2000

SOV-21-58-9-12/28

Spheroidization, Coalescence and Graphitization of Cementite in Deformed Perlite

> atoms in a metallic matrix due to accumulation of dislocations and vacancies in the traces of deformation and also to arising injuries of continuity (microcracks). There are 4 sets of photos and 15 references, 11 of which are Soviet, 3 English and 1 German.

ASSOCIATION: Institut chernoy metallurgii AN UkrSSR (Institute of Ferrous Metallurgy of the AS UkrSS); Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute)

SUBMITTED:

March 4, 1958

NOTE:

Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Iron carbides--Metallurgy 2. Steel--Properties iron--Properties 4. Pearlite--Metallurgical effects

Card 2/2

BUNIN, K.P.; GRECHNYY, Ya.V.; MALINOCHKA, Ya.N.; TARAN, Yu.N.; BEL'CHENKO, G.I.;

POGRENYY, E.N.; DANIL'CHENKO, N.M.; YATSENKO, A.I.; HEPIN, A.K.;

BARANOV, A.A.; SHPAK, T.M.

Is metastable austenite possible at a point higher than A1?

Izv.vys.ucheb.zav.; chern.met. nc.10:143-144 0 '58.

(MIRA 11:12)

1. Dnepropetrovskiy metallurgicheskiy institut i Institut chernoy metallurgii AN USSR.

(Austenite) (Phase rule and equilibrium)

KOSTENETSKIY, O.N.; POGREBNOY, A.Ye.

Using mrap metal in the oxygen-blown converter method of steel production. Met. 1 gornorud. prom. no.61 (MIRA 18:12)

s/129/60/000/05/015/023 E091/E235

187100

N., and Taran, Yu. N., Candidates of

AUTHORS:

Effect of Quenching on the Graphitization of Cast Iron Pogrebnoy, E. N., a Technical Sciences

and Steel TITIE:

Metallovedeniye i termicheskaya obrabotka metallov, 1960, Nr 5, pp 48-52 (USSR) PERIODICAL:

ABSTRACT: Carbides dissolve in carbon steels and medium alloy steels at 900°C within 3 to 5 mins (Ref 6) and at above of company steels at 90000 within 5 to 5 mins (ker 6) and at above 95000 within a fraction of a minute (Fig 1, curve 3).

Graphite produced by heating quenched steel also, In order that the vacancies in the dissolves rapidly.

The product of the product of the property of the prop matrix, formed when graphite dissolves, should heal up, lengthy soaking is required. Hence, during austenisation (1 hour at 900°C) of steel which had been quenched and tempered at 45000 (to cause formation of scappide) tempered at 4500C (to cause formation of E-carbide), the carbide phase and graphite nuclei dissolve completely in the austenite and any effect of the e-carbide on subsequent graphitization of the steel must cease. If

the effect of preliminary quenching does not disappear, on austenitizing it cannot be accordated with the precent one errect or presumently quenching does not areappear, austenitizing it cannot be associated with the presence Card 1/4

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610016-8"

69335 s/129/60/000/05/015/023 E091/E235

Effect of Quenching on the Graphitization of Cast Iron and Steel of the &-carbide and graphite nuclei. Gulyayev et al (Ref 8), Yakovleva et al (Ref 9) and Bunin et al (Refs 10 and 11) have shown that numerous quench microcracks (Figs 2 and 3a) form in the matrix crystals during the martensitic transformation. On graphitization annealing, numerous graphite inclusions form in the quench microcracks. It can be distinctly seen in steel quenched from high temperatures that the graphite inclusions form preferentially in the microcracks of former martensitic plates or in their joints (Figs 2 The number of graphite inclusions forming on annealing quenched steels and cast irons increases rapidly with the drop in temperature. The retention of the effect of preliminary quenching after austenitization is due to the presence of quench cracks. Damages and distortions arising in steel during the martensitic transformation disappear only after lengthy soaking of the specimens in the austenitic range. In order to find time required for austenitization to proceed to completion (i.e. for the effect of quench Card 2/4 defects on graphitization to disappear), specimens of

69335

S/129/60/000/05/015/023 E091/E235

Effect of Quenching on the Graphitization of Cast Iron and Steel quenched steel, prior to graphitization, were heated and isothermally soaked for various lengths of time at 900, 940, 970, 1000 and 1100°C. These specimens were subsequently graphitized for 10 hours at 680°C in order to "expose" the damages in the matrix of the steel (Ref 5). Fig 4 shows a plot of the change of the number of graphite inclusions forming on annealing quenched steel as functions of the temperature and duration of austenitization prior to graphitizing annealing. The rate at which the damages (microcracks) and distortions of crystals of quenched steel heal in relation to austenitization temperature (at 900 to 1100°C) has an exponential character (see Fig 1, curve 1) and agrees with the results (curve 2) obtained by Bunin and Pogrebnoy (Ref 5). In the opinion of the authors, of this paper, the main reason for the acceleration of graphitization of quenched steels is the presence of quench damages and distortions of the matrix crystals. The dimensional and structural relationship between austenite and graphite has been shown by Repin and Card 3/4

CIA-RDP86-00513R001341610016-8"

APPROVED FOR RELEASE: 06/15/2000

a compared respectively by the second respective before

69335 S/129/60/000/05/015/023 E091/E235

Effect of Quenching on the Graphitization of Cast Iron and Steel
Taran (Ref 12). A comparison between the atomic postion

Taran (Ref 12). A comparison between the atomic packing of carbon in the basal plane of graphite and the arrangement of unit cells in the octohedral plane of austenite (these being the most convenient places for carbon atoms) shows that the octohedral plane can be a good basis for the formation of graphite layers. The parameter deformation does not exceed 2.1% (Fig 5a). It has been found that ferrite can have a similar value (Fig 5b). In this case, the deformation associated with the spacing of iron atoms in the octohedral plane does not exceed 4%. From this it follows that the basic phases of iron alloys, austenite and ferrite, can be an even better basis for the formation of graphite than \(\varepsilon\)-carbide, for which the lattice deformation is 5% (Fig 5B). There are 5 figures and 14 references, 9 of which are Soviet, 4 French and 1 English

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Institute of Metallurgy)

Card 4/4

BUNIN, Konstantin Petrovich; BARANOV, Aleksandr Aleksandrovich; POGREBNOY, Emil' Nikiforovich; KISINA, I.V., red. izd-va; LISOVETS, A.M., tekhm. red.

[Graphitization of steel] Grafitizatsiia stali. Kiev, Izd-vo Akad. nauk USSR, 1961. 84 p. (MIRA 14:9) (Steel-Metallography) (Annealing of metals)

5/180/61/000/001/004/015 E071/E433

Pogrebnoy, E.N. (Dnepropetrovsk)

TITLE:

Coalescence, Spheroidization and Closing Up of

Micropores and Microcracks in Iron Alloys

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1961, No.1, pp.58-63

TEXT: Processes of recovery of defective crystals, coalescence, spheroidization and closing up of micropores and microcracks during homogenization (austenization) of cast, deformed and heat treated steel were investigated. For the detection of defects in the matrix of graphitized steels, the graphitization method was used (Ref.4). The experiments were carried out on a cast steel 1.34% Si; 0.37% Mn; 0.04% P; 0.033% S; 0.02% Cr; (0.92% C: 0.03% Ni) which, in the initial state, had a fine pearlitic One series of specimens (10 x 10 x 15 mm) of this steel was cold worked (with about 30% reduction), the second was hardened for martensite (from 1100°C in water). High temperature treatment of specimens in the austenitic state (homogenization) was used for the redistribution and closing up of defects and distortions. After various isothermal treatments at 900, 940, Card 1/5

Coalescence, Spheroidization ...

S/180/61/000/001/004/015 E071/E433

970, 1000, 1100 and 1200°C, the specimens were graphitized (10 hours at 680°C) for the development of defects in the metallic Micro-investigation of specimens graphitized after the homogenation indicated that the number of graphite inclusions, formed in the matrix defects, changes depending on the nature of the preliminary treatment and temperature and duration of the homogenation process. The changes are discussed and illustrated in microphotographs; plot Fig.2 shows the influence of temperature and duration of the homogenation (τ , hours) on the number of graphite inclusions (n units/mm²) formed during graphitization of the preliminary homogenized and deformed (Fig.2a), cast (Fig.2b) and hardened (Fig.2B) steel. On the basis of experimental results, it appears that defects and distortions in the polycrystalline matrix of cast and preliminarily worked steels are slowly redistributed, coalesce, spheroidize and finally close up on high temperature soaking in the austenitic state. During the process of coalescence of pores, they are redistributed in respect of number and size; their size increases whilst their number decreases. The coalescence of pores speeds up with increasing temperature. Micropores situated on grain boundaries coalesce faster than those Card 2/5

Coalescence, Spheroidization ...

S/180/61/000/001/004/015 E071/E433

situated inside austenitic grains. At comparatively low homogenation temperatures, processes of spheroidization and closing up counteract the spreading of boundary pores along the grain With increasing temperature, the ability of pores to grow along the grain boundaries increases (at 1200°C boundary pores grow to a considerable size appearing in a shape of boundary fissures forming the base for the formation of graphite network). As the micropores grow and their size/equalization progresses and also due to increasing diffusion distances and perfection of the crystals (decrease in the concentration of vacancies and dislocations) the process of coalescence will slow down. aided by simultaneous processes of spheroidization and closing up of pores, particularly when their velocity begins to exceed that of coalescence of pores. During the spheroidization process, micropores with variable curvature spheroidize, their surface area decreases and so does the free energy related to it. spheroidization, fissures at first divide into smaller ones and then are transformed into equiaxial ones enclosed by faces related to the structure of metallic matrix (in the case of austenite - octahedron and cube). With increasing temperature, Card 3/5

Coalescence, Spheroidization ...

S/180/61/000/001/004/015 E071/E433

spheroidization of micropores is speeded up. and spheroidization processes aid in some way the closing of The coalescence defects and distortions in crystals. The closing up of defects near the surface of specimens is faster than inside. improvement of the matrix, the velocity of heating of defective crystals decreases. The energy of activation of this process is about 28000 to 31000 cal/mole. It is concluded that the processes of redistribution of defects and distortions in the matrix, taking place due to diffusion and dislocation, play a considerable role during the homogenation process. They can have a considerable influence on diffusion and on the nature of structural and phase transformations in metals and alloys and on their physico-chemical properties and, therefore, should be taken into consideration during the homogenation process. There are 4 figures and 6 Soviet references.

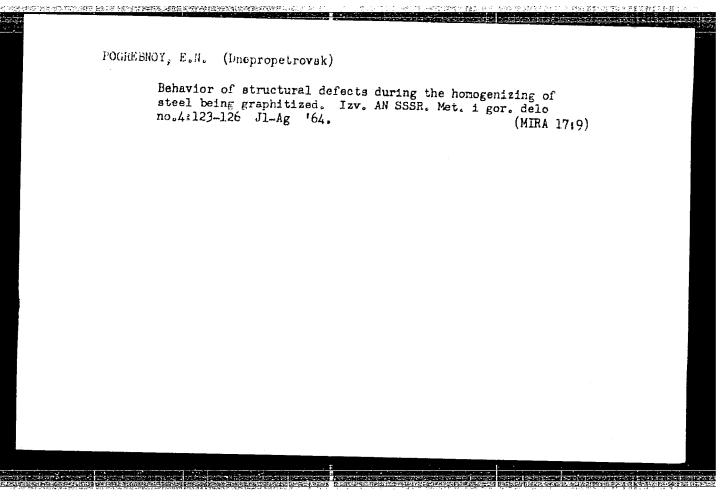
ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut

(Dnepropetrovsk Metallurgical Institute)

SUBMITTED:

July 13, 1960

Card 4/5



"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610016-8

EPF(c)/EPR/ENG(j)/ENA(c)/ENT(m)/ENP(1)/ENP(b)/T/ENA(d)/ENP(w)/ENP(e)/EMP(t) L 63340-65 ACCESSION NR: AP5017481 Pr-li/Ps-li JAJ/WH/WW/JD UR/0370/65/000/003/0187/0191 539.4.015/019 AUTHOR: Pogrebnoy, E. N.; Zhak, K. M. TITLE: On intergramular fracture of metals SOURCE: AN SSSR. Izvestiya. Metally, no. 3, 1965, 187-191 TOPIC TAGS: intergramular fracture, metal deformation, metal fracture, dislocation structure, cohesive strength, intergramular deformation, ferrosilicon, graphite stain, thermal stress, microcrack, slip ABSTRACT: In the process of the deformation of metals, fracture may occur owing to the formation of cracks inside and between the grains. Intergranular cracks as a rule appear at the site of contact between three grains or in other "interlocked" sectors of intergranular boundaries at which stresses may mount until they exceed the cohesive strength of the grains. In this connection, the authors present the results of an investigation of changes in the dislocation structure in the presence of intergranular deformation and fracture, as well as of the possibility of detecting intergramular fracture in its early stages in Fe-C-Si alloys in which flaws in cohesion can be detected by microscopic detection of graphite stains, since graphite is released more rapidly at the surface of pores and small cracks than in the compact matrix. Specimens of ferrosilicon (0.028-0.035% C and 2.90-3.35% 8i), 20 mm in diameter, were hardened and subsequently quenched in water. The rapid cooling Card 1/3

I 63340-65

ACCESSION NR: AP5017481

produced considerable thermal stresses resulting in a marked deformation. Prior to the annealing the structure consisted of large ferrite crystals and a small amount of carbides and pearlite. Annealing of the specimens (to stain the cracks with graphite) was performed at 650, 700, 750, and 800°C for from 1 to 24 hr. After the annealing the structure was found to include sectors in which graphite concentrates at the boundaries between two or three grains or inside one of the grains. The detection of intergranula microcracks is facilitated by tracing the graphite. This, together with the possibility of detecting the dislocation structure in ferrosilicon, makes it possible to analyze the nature of the stressed state at the point of contact between grains and the stress relaxation during intergranular deformation and fracture. Thus, the possibility of the formation of cracks in the presence of intergranular deformation is confirmed. The intergranular cracks catalyze graphiteformation during annealing. The graphite, following the form and nature of the cracks, facilitates the detection of intergranular fracture in carbon-containing ferrosilicon. An analysis of the dislocation structures suggests the conclusion that intergranular deformation and fracture are accompanied by a considerable buildup of dislocations at grain boundaries, arising as a result of the action of sources close to or at the contact between grains. Intergranular deformation with the formation of microcracks localizes in the neighborhood of the sites of contact between three grains and along the grain boundaries at sites of fracture, at sites of con-

Cord 2/3

L 63340-65

ACCESSION NR: AP5017481

produced considerable thermal stresses resulting in a marked deformation. Prior to the annealing the structure consisted of large ferrite crystals and a small amount of carbides and pearlite. Annealing of the specimens (to stain the cracks with graphite) was performed at 650, 700, 750, and 800°C for from 1 to 24 hr. After the annealing the structure was found to include sectors in which graphite concentrates at the boundaries between two or three grains or inside one of the grains. The detection of intergranula microcracks is facilitated by tracing the graphite. This, together with the possibility of detecting the dislocation structure in ferrosilicon, makes it possible to analyze the nature of the stressed state at the point of contact between grains and the stress relaxation during intergranular deformation and fracture. Thus, the possibility of the formation of cracks in the presence of intergranular deformation is confirmed. The intergranular cracks catalyze graphiteformation during annealing. The graphite, following the form and nature of the cracks, facilitates the detection of intergranular fracture in carbon-containing ferrosilicon. An analysis of the dislocation structures suggests the conclusion that intergranular deformation and fracture are accompanied by a considerable buildup of dislocations at grain boundaries, arising as a result of the action of sources close to or at the contact between grains. Intergranular deformation with the formation of microcracks localizes in the neighborhood of the sites of contact between three grains and along the grain boundaries at sites of fracture, at sites of con-

Card 2/3

BUNIN, K.P.; NAM SW., No.B.; FORESHET, E.R. (Pohribnyi, F.E.)

Direction of comentite in the austenité of seliculative. Day.

AH PRSH no.3:236-338 *165. (Direction of the community of the commu

	<u>12-66</u> EWT(m)/EWP(w)/T/EWP(t) IJP(c) JD/GS R: AT6010575 (N) SOURCE CODE: UR/0000/65/000/000/0064/0072	
AUTHOI	R: Pogrebnoy, E. N.; Zhak, K. M. Bil	
ORG: instit	<u>Dnepropetrovsk Metallurgical Institute</u> (Dnepropetrovskiy metallurgicheskiy ut)	
TITLE	Intergranular deformation and fracture	
SOURCE plasti	: AN UkrSSR. Mekhanizm plasticheskoy deformatsii metallov (Mechanism of the c deformation of metals). Kiev, Naukova dumka, 1965, 64-72	
TOPIC	TAGS: crystal deformation, ferroalloy, silicon alloy, material fracture	
deform	CT: The authors study changes in <u>dislocation structure</u> during intergranular structure and the possibilities for intergranular fracture in the	
ite wh	stages of deformation in alloys where the fractures may be decorated by graphich is segregated more rapidly on the surfaces of pores and cracks than in a matrix. Specimens of ferrosilicon with 0.028-0.35% C and 2.90-3.35% Si were	
<u>harder</u>	ed and quenched in water. The specimens were 20 mm in diameter. Rapid coolused high thermal stresses resulting in considerable deformation. The	

L 24472-66

ACC NR: AT6010575

"

specimens were annealed at 650, 700, 750 and 800° with holding from 1 to 24 hours. Analysis of the dislocation structure in annealed specimens showed that intergranular deformation is accompanied by considerable accumulation of dislocations at the grain boundaries. The dislocations form complex patterns in boundary regions and at points where 3 grains come together. Intergranular deformation penetrates deeply into the crystal. The nature of the intergranular deformation is complicated by twins or slip bands at the contact boundary between 2 or 3 grains. At points of juncture between a twin and an intergranular boundary, "flare-shaped" plastic deformation regions are observed which spread out from the juncture deep into the adjacent grain. These flares consist of fibrous and branching slip lines which are characteristic for metals with a bcc lattice. The dislocation density in these zones is high and irregular. The experimental data indicate that cracks may be formed during intergranular deformation. The dislocations which accumulate at the grain boundaries during intergranular deformation and fracture are due to sources located close to the grain boundaries. Orig. art. has: 6 figures.

SUB CODE: 11/ SUBM DATE: 04Sep64/ ORIG REF: 005/ OTH REF: 004

Card 2/2 da

FOGREBNOY, E.N., kand. tekhn. nauk; KHEYFETS, I.G., kand. tekhn. nauk

Graphitizing hardened white cast iron. Lit. proizv, nc.9:24-25 S
165. (MIRA 18:10)

BUNIN, K.P.; ZAKORKO, Zh.B.; POGREBNOY, E.N. [Pohribnyi, E.N.]

Kinetics of graphite precipitation in hypereutectoid silicon steel.

Dop. AN URSR no.9:1194-1197 '62. (MIRA 18:4)

1. Institut chernoy metallurgii AN UkrSSR. 2. Chlen-korrespondent AN UkrSSR (for Bunin).

POGREBNOY, E.N. (Dnepropetrovsk)

Processes of the formation and the elimination of porosities during the homogenization of hyperentectoid steel. I v. AN SSSR. Met. no.1: 119-123 Ja-F *65. (MIRA 18:5)

BUNIN, K.P. (Imepropetrovsk); ZAKORKO, Zh.B. (Imepropetrovsk); POGREBNOY, E./.
(Imepropetrovsk)

PRESENTATION APPEARAGEMENTATION OF THE RECEIPED TO PROPERTY OF THE PROPERTY OF

Structure formation in hyperentectoid graphitized silicon steels. Izv. AN SSSR. Met. i gcr. delo no.5%127-131 5-0 54.

(MIRA 1881)

BUNIN, K.P.; ZAKORKO, Zh.B.; POGREBNOY, E.N. [Pohribnyi, E.N.]

Structure formation of hypereutectic graphitized steels. Dop.
AN URSR no.2:205-209 '64. (MIRA 17:5)

1. Dnepropetrovskiy metallurgicheskiy institut. 2. Chlen-korrespondent AN UkrSSR (for Bunin).

ZAKORKO, Zh.B. (Dnepropetrovsk); POGREBNOY, E.N. (Dnepropetrovsk)

Diagrams of the isothermal decomposition of austenite in graphitizable steel. Izv. AN SSSR. Otd. tekh. nauk. Met. i gor. delo no.4:112-116 J1-Ag '63. (MIRA 16:10)

EPR/EPF(c)/EWP(q)/EWT(m)/EWP(B)/BDS AFFTC/ASD Ps-4/	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6
ACCESSION NR: AT3001934	
AUTHORS: Pogrebnoy, E. N.; Repin, A. K. (Deceased) 69	
TITLE: Changes in structure and shape of graphite inclusions in 10	
SOURCE: Kristallizatsiya i fazovyye perekhody. Minsk, Izd-vo AN BSSR,	
1962, 336-340	1
TOPIC TAGS: crystal, crystallization, crystallography, graphite, inclusion, addition, impurity, Fe, Al, Si, Ti, Mn, W, Mo, Cr, austenite, martensite, ferrite, cementite, vacancy, dislocation, micropore, microfissure, malleable, cast iron, steel, diffusion, graphitized, graphitization, martensite,	
ABSTRACT: The paper describes experimental findings on the effect of the state of t	
the graphite, and that of impurities and crystalline-structure defects (vacancies the graphite, and that of impurities and crystalline-structure defects (vacancies the graphite, and that of impurities and crystalline-structure defects (vacancies the graphite) in graphitized F	e
dislocations, micropores, and microfissures of various origin, in graphite dislocations, micropores, and microfissures of various origin, in graphite dislocations, micropores, and microfissures of various origin, in graphite dislocations. Typical examples of the broad variety of graphite inclusions found in the alloys. Typical examples of the broad variety of graphite inclusions found in the alloys. Typical examples of graphitized steel and malleable cast iron are metallographic investigations of graphitized steel and malleable cast iron are	:
Card 1/3	
THE RESIDENCE OF THE PROPERTY	* * * * * * * * * * * * * * * * * * *

L 19750-63

ACCESSION NR: AT3001934

shown. This multiplicity of forms of graphite inclusions is attributed primarily to the growth conditions of the graphite, depending on the character of the primary structure and the degree of nonuniformity of the matrix structure, the chemical composition, and the conditions of the anneal. A prime opportunity for the formation of graphite inclusions is afforded by shrinkage micropores, placed between the branches of austenite dendrites and along the interphase boundaries. Both the origin and the geometry of such micropores are described. The effect of additions and alloying elements introduced into synthetic cast iron or steel on the growth conditions of the graphite are described, including their effect on the relative growth rate of the graphite in the austenite or ferrite phase, if the additions are concentrated in the austenite during hardening and distort its crystalline lattice significantly. Among such additions are Al, Si, and partially Ti. It is characteristic that these additions accelerate the near-boundary diffusion more strongly than the volumetric diffusion. Therefore, with an increased concentration of Si and Al, the shape of the graphite inclusions changes from spherical to branched. By contrast, the relative growth speed in austenite is reduced by additions that increase the interatomic bonding forces in austenitic carbide phases more strongly and, therefore, loosen up their crystalline lattice. Examples: Mn, W, Mo, and Cr, which concentrate preferably in the carbide phase. Additions that form readily-fusible components affect the shape of graphite inclusions in a peculiar

L 19750-63

ACCESSION NR: AT3001934

manner. An investigation of synthetic cast irons with various P contents showed that, if the initial structure of the white cast iron contained a phosphide eutectic and the anneal temperature is higher than its m.p., then the shape of inclusions with an elevated P concentration gradually passes from a blot-shaped to a lamellar shape. The defect formations of the martensite transformation of austenite are discussed, and the nature of the resulting microfissures is examined. Orig. art. has 5 figs.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ:

16Apr63

ENCL:

00

SUB CODE:

CH, PH, MA, EL

NO REF SOV:

019

OTHER: 007

Card 3/3

POCREHNOY, E.N.

Form of graphite inclusions in graphitic steel. Izv.vys.ucheb. 22v.; chern.met. 6 no.1:139-146 '63. (MIRA 16:2)

1. Dnepropetrovskiy metallurgicheskiy institut. (Steel casting—Metallography)

\$/276/63/000/003/005/006 A004/A127

AUTHORS:

Krivosheyev, A. Ye., Pogrebnoy, E. N., Fetisov, N. M.

TITLE:

The effect of modification on the structure and mechanical

properties of cast steel being graphitized

PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 3, 1963, 6, abstract 3G42 ("Sb. nauchn. tr. Dnepropetr. metal-

lurg. in-t", 1962, no. 49, 165 - 174)

TEXT: Modifying additions effectively affect the structure of cast and annealed graphitized steel. In the complex modification of steel by aluminum + calcium silicon + boron, the boron additions that are added for increasing the hardenability should not exceed 0.01%. Boron additions of more than 0.01% can only be recommended for castings whose ductility may be reduced at high demands made on their hardenability and wear resistance during operation.

[Abstracter's note: Complete translation]

Card 1/1

KRIVOSHEYEV, A.Ye.; POGREHNOY, E.N.; FETISOV, N.M.

Inoculation of steel undergoing graphitization. Lit.proixv.
no.ll:28-29 N '62. (MIRA 15:12)

(Steel-Metallurgy)

CIA-RDP86-00513R001341610016-8

s/148/63/000/001/017/019 E071/E151

AUTHOR:

Pogrebnoy, E.N.

TITLE:

On the form of graphite inclusions in a

graphitised steel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,

Chernaya metallurgiya, no.1, 1963, 139-146

TEXT:

From a review of the literature the different shapes

of graphite inclusions met with in graphitised steel are illustrated, and the conditions necessary for their formation

discussed. These include non-uniformity of the steel matrix, chemical composition of the steel, initial structure, heat-

treatment, etc.

There are 5 figures.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut

(Dnepropetrovsk Metallurgical Institute)

SUBMITTED:

January 12, 1961

Card 1/1

CIA-RDP86-00513R001341610016-8" APPROVED FOR RELEASE: 06/15/2000

HE ST HE LANGE TO	APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341610016-8
	POGREBNOY, E.N.
`	Effect of preliminary homogenizing on the second-stage graphitization of steel. Izv. vys. ucheb. zav.; chern. met. 4 no.ll:165-169 '61. (MIRA 14:12)
	1. Dnepropetrovskiy metallurgicheskiy institut. (Steel-Heat treatment) (Metallography)
-	
•	

POGREBNOY, I.T. (g. Gor'kiy)

New development in the organization of the operations of a freight terminal. Zhel. dor. transp. 47 no.5:26-30 My '65. (MIRA 18:6)

1. Zamestitel' nachal'nika stantsii Gcr'kiy-Moskovskiy Gor'-kovskoy dorogi.

POGREBNOY, L.

Lecture tour across England. Sov.profeoiuzy 6 no.14:72-73
0 '58. (MIRA 11:12)

1. Zaveduyushchiy otdelom truda i zarabotnoy platy Veesoyuznogo
TSentral'nogo soveta profeoyuzov.
(Ruseia--Relations (General) with Great Britain)
(Great Britain--Relations (General) with Rusein)

POGREBNOY, L.

Honorable task of our trade unions. Sov.profsoiuzy 16 no.13:12-17 J1 '60. (MIRA 13:8)

1. Zaveduyushchiy otdelom truda i zarabotnoy platy Vsesoyuznogo tsentralnogo soveta prcfsoyuzov.

(Trade unions)

FOG	REBNOY, L.
	Prepare well for the conclusion of collective agreements. Sov. profsoiuzy 16 no.24:48-51 D :60. (MIRA 14:1)
	1. Zaveduyushchiy otdelom truda i zarplaty Vsesoyuznogo tsentral'nogo soveta profsoyuzov. (Collective labor agreements)
	•

POCREBNIJ, L. [Pogrebnoy, L.]

Some experiences with the "For Communist Work" movement in the factories of the Soviet Union. Munka 11 no.10:4-5 0 '61.

1. Szovjet Szakszervezetek Kozponti Tanacsa ber-es munkaugyi osztalyanak vezetoje.

POGREBNOY, L.

Wages according to the labor involved. Sov. profsoiuzy 19 no.24:22-25 D 63. (MIRA 17:1)

1. Zaveduyushchiy otdelom Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov po proizvodstvennoy rabote i zarabotnoy plate v promyshlennosti, stroitel'stve i na transporte.

POGREBNOY, Lavrentiy Ivanovich; NOVOSPASSKIY, V.V., red.; KOROBOVA, N.D., tekhn. red.

[Commission for wages] Komissiia zarabotnoi platy. Koskva, Profizdat, 1961. 46 p. (Bibliotechka profsoiuznogo aktivista, no.23)

(MIRA 15:7)

1. Zaveduyushchiy otdelom truda i zarabotnoy platy Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Pogrebnoy).

(Wages)

POGREBNOY, O.G.

Efficient measures for preventing accidents. Bezop.truda v prom. 2 no.10:30 0 158. (MIRA 11:11)

1. Starshiy insh. po tekhnike bezopasnosti tresta Tatburneft'. (Tatar A.S.S.R.--Oil fields--Safety measures)

L 32827-66 EWP(1)/EWT(d) LJP(c) BB/GG/GD SOURCE CODE: UR/0000/65/000/000/0031/0038 ACC NR: AT6008313 AUTHOR: Pogrebnoy, V. A. (L'vov) ORG: None TITLE: A stabilized source of current and voltage for an analog-to-digital converter SOURCE: AN UkrSSR. Elementy sistem otbora i peredachi informatsii (Elements of systems for selecting and transferring information). Kiev, Naukova dumka, 1965, 31-38 TOPIC TAGS: analog to digital converter, current stabilization, circuit design, voltage stabilization ABSTRACT: Analog-to-digital converters often employ the code-pulse method of conversion. This method consists in a sequential comparison of the voltage being converted with a set of sample voltages which vary according to a specified law. The series of the output pulses, corresponding to the combination of sample voltages, represents a coded value of this quantity. This combination of sample voltages is required for the compensation of the magnitude of the measured signal at a given instant. A detailed description is given of the circuit considered, together with block diagrams. The stabilized source of current investigated is intended for operation in laboratory conditions, therefore no temperature stabilization is prescribed. The circuit is intended for an analog-to-digital converter, but may be used as a conventional stabil-Card^{1/2}

SUB CODE: 09 / SUBM DATE:	ollized source of voltage. Orig. art. has: 3 figures an 06Nov65 / ORIG REF: 001 / OTH REF: 001	d 3 form-
	001 / OTH REF: 001	
•	" ·	
•		
d 2/2		-

T. 08/119-67 EWT (ACC NR. AT6034429 EWT(d)/EWP(1) IJP(c) BB/GG/GD SOURCE CODE: UR/0000/66/000/000/0118/0121 AUTHOR: Pavlyuk, E. I. (L'vov); Pogrebnoy, V. A. (L'vov) ORG: none TITLE: A temperature-stable magnetic-semiconductor balancing circuit for analog-to-SOURCE: AN UkrSSR. Termostoykiye radiotelemetricheskiye sistemy (Heat resistant radiotelemetering systems). Kiev, Naukova dumka, 1966, 118-121 TOPIC TAGS: analog digital converter, transistorized circuit ABSTRACT: A balancing circuit with high temperature stability used in analog-todigital converters is described. The circuit, made with magnetic and silicon semiconductor components, includes a second harmonic magnetic modulator, an LC circuit and an amplifier tuned to the second harmonic, a phase detector with an amplifier, a transistorized key circuit, a square wave generator, and a magnetic frequency doubler. The converter works with an input frequency of 900 cps, and its zero drift does not exceed 10-15 v, a figure which corresponds to an input voltage of 0.4 µv at an input impedance of 160 ohms. The converter starting voltage does not exceed 20 µv, and its releasing voltage does not exceed 40 µv. Its maximum operation time is 5 msec, and its operating temperature is -20-100C. The converter uses P104 or P106 transistors. Orig. art. has: 1 figure. SUB CODE: 09/ SUBM DATE: 05Apr66/ ORIG REF: 003/ ATD PRESS: 5103 Card 1/1_LS

ACC NR. AT7001497

SOURCE CODE: UR/0000/66/000/000/0162/0166

AUTHOR: Pogrebnoy, V. A. (L'vov)

ORG: none

TITLE: Analog-to-digital converter balancing circuit using a magnetic second harmonic modulator

SOURCE: AN UkrSSR. Teoriya i praktika ustroystv dlya preobrazovaniya elektroizmeritel'noy informatsii (Theory and practice of devices for the conversion of electrical measuring information) Kiev, Naukova dumka, 1966, 162-166

TOPIC TAGS: analog digital converter, computer input unit, computer circuit,

ABSTRACT: A balancing circuit for use in A/D converters is described. To increase its sensitivity (i.e. decrease the threshold level) and lower the zero drift the demodulator arrangement. In this second arrangement the second harmonic modulator/ the driver oscillator) which is proportional to the input analog voltage is amplified by a two-stage transistor selective amplifier, detected by an amplifying phase detector, and compared to the amplitude of the second harmonic derived directly from the frequency doubler. The zero drift of the circuit does not exceed 10⁻¹⁵ w (at voltage does not exceed 20 µv. A certain hysteresis of the threshold is evident since Cord 1/2

Card 2/2

ANTIPOV, V.A., inzh.; YERMOLENKO, A.Ye., inzh.; POGREBNOY, V.M., inzh.

Fire extinction at the Donets Basin mine "Anna." Bezop.truda v

(MIRA 15:11)

1. Shakhterskiy trest ugol'nykh predpriyatiy kombinata Rostovugol'

Ministerstva ugol'noy promyshlennosti SSSR.

(Donets Basin—Mine fires)

LITVINENKO, A.U.; POGREBNOY, V.T.

Realgar and some characteristics of the distribution of arsenic in the ore-bearing formation in the Azov. and Kerch deposits. Lit. i Pol iskop. no.2:149-152 Mr-Ap '64. (MIRA 17:6)

1. Dnepropetrovskaya geologicheskaya ekspeditsiya.

LITVINENKO, A.U.; PCCREENOY V.T.

New data on the ore potential of Cimmerian sediments in the region of the Sea of Azov. Dokl. AN SSSR 157 no. 44852-855

(MIRA 17:8)

1. Predstavleno akademikom N.M.Strakhovym.

POGREBNOY, Ya., kand.tekhn.nauk; BURIK, O., inzh.-mekhanik

The US-1 universal apparatus. Prom.stroi.i inzh.soor. 4
no.2:56-57 Mr-Ap '62.

(Concrete reinforcement)

(MIRA 15:11)

Progressed reinforced concrete crane girders with twisted clusters of reinforcement with loop anchors. Prom. strol.

i inzh. soor. 4 no.3:56-57 My-Je '62. (HEA 15:7)

(Concrete reinforcement)

(Beams and girders)

S/081/61/000/024/054/086 B150/B102

AUTHOR:

Pogrebnoy, Ya. F.

TITLE:

Theoretical questions on the setting and strength of concretes

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1961, 365, abstract 24K324 (Sb. "Primeneniye melkikh peskov v betone i metody podbora sostava betona". M., Gosstroyizdat, 1961, 38 - 43)

TEXT: In fine-sand concrete, cement stone basically performs the function of a paste. Therefore the strength of these concretes will depend very largely on the degree of adhesiveness of the aggregate by the cement stone. The adhesion of the aggregate by the cement stone is based upon the physicochemical reaction of the molecules of the paste with the molecules and atoms of the bonded substance, but this reaction depends first of all on the surface activity of the aggregate, its chemical composition and the conditions under which the process takes place. Fundamental methods are enumerated for increasing the surface activity of the aggregate both mechanically and chemically. Free water exerts considerable influence on the formation and strength of the molecular bonds between the aggregate

Card 1/2

POCREENCY, Yakov Fedorovich; KOMENDANT, K.P., red.; YEREMINA, I.A., tekkin. red.

[Technology of prestressed concrete construction] Tekhnologiia predvaritel'no napriazhennogo zhelezobetona. Kiev, Gosstroiizdat USSR, 1963. 157 p. (MIRA 16:12) (Prestressed concrete construction)

TURKENICH, D.I.; MIKHAYLOV, V.A.; POGREBNOY, Yu.N.; POTRUSAYEV, A.P.

Intensity of flame radiation above an oxygon-blown converter as parameter for the automatic stoppage of the smelting process. [Sbor. trud.] TSNIICHM no.29:57-64 '63. (MIRA 17:4)

TURKENICH, D.I.; SMOKTIY, V.V.; POTRUSAYEV, A.P.; POGREBNOY, Yu.N.; ALEKSEYEV, L.A.; ZIN'KO, B.F.

Iron oxidation and the degree of oxygen use in converter smelting. Izv. vys. ucheb. zav.; chern. met. 7 no.1:46-51 '64.

(MIRA 17:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.

POGREBNOY, Yu.P.; OSTROVSKIY, G.M.; SLIN'KO, M.G.

Brief news. Khim.prom. no.7:71-73 Jl '63. (MIRA 16:11)

LISHANSKIY, Mark L'vovich; POGREBNYAK, Aleksandr Dmitriyevich; TATINTSYAN, Sarkis Vartanovich, nauchn. sotr.; LAPIDUS, M.A., red.

[Guaranteed wages and business accounting on a collective farm] Garantirovannaia oplata i khozraschet v kolkhoze.
Moskva, Kolos, 1965. 85 p. (MIRA 18:6)

l. Nachal'nik finansovogo otdela Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov Dagestanskoy ASSR (for Lishanskiy). 2. Dagestanskiy nauchno-issledova-tel'skiy institut sel'skogo khozyaystva (for Tatintsyan).

L Surnitual . Francow Cultivation. ABS. JOUR: "eaf Zhar -Brologiye, . . . 1, 1959, No. 1535 : Artemonuk, I.V.; Berezovskaya, R..; Pogrebnyak, A.I. AUTHOR INST. Chernovitsy Univ. : Contain Teatures of the Natural Forage Grounds TITLE in the Foothill Country of the Bucowins Carpathi ms. ORIG. PUB .: Nauchn. yezhegodnik. Chernovitsk.un-t. 1956 (1952), L. No. 2, 74-,8 ABSTRACT : No abstract CARD: 1/1

CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE

POGREBNYAK, A. P.

POGREBNYAK, A. P.: "The treatment of chronic purulent otitis with antibiotics." Khar'kov Medical Inst. Khar'kov, 1956. (DISSERTATION for the Degree of Doctor in Medical Science.)

So: Knizhnaya Letopis', No. 18, 1956.

SKOBLIN, A.P., kend.med.neuk; POGREBNYAK, B.A.

Apparatus for determining the rotary motility of the shoulder (omorotatometer). Ortop.travm. i protez. 18 no.4:54-56 Jl-Ag '57.

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii im. M.I.Sitenko (dir. - chlen-korrespondent AMH SSSR prof. N.P. Novachenko)

(SHOULDER

appar. for determ. of rotatory motility)

(ORTHOPEDICS, appar. and instruments

appar. for determ. of rotatory motility of shoulder)

BERDASHKEVICH, Ya.A.; BELOUS, A.M.; BOROVITSKAYA, A.I.; YENGALYCHEVA, N.A.; POGREBNYAK, B.A.; SOKOL, G.M.; TARASENKO, N.N.

Occurrence of traumatic orthopedic diseases among rural and urban population. Ortop., travm. i protez. 26 no.11:60-66 N '65. (MIRA 18:12)

l. Iz Khar'kovskogo instituta protezirovaniya, travmatologii i ortopedii imeni M.I. Sitenko (direktor - chlen-korrespondent AMN SSSR prof. N.P. Novachenk). Adres avtorov: Khar'kov, Pushkinskaya ul. d. 80, Institut imeni M.I. Sitenko.

POGREBNYAK, B.A.

Distribution and frequency of muscular lesions and deformities in patients with poliomyelitis sequelae. Trudy Ukr. nauch.-issl. inst. ortop. i trava. no.15:65-71 159 (MIRA 16:12)

l. Iz otdela fiziologii i patomekhaniki (zav. otdelom - doktor med. nauk O.V.Nedrigaylova)Ukrainskogo nauchno-is-sledovatel'skogo instituta ortopedii i travmatologii imeni prof. M.I.Sitenko (dir. - chlen-korrespondent AMN SSSR, prof. N.P.Novachenko).

SKOBLIN, A.P., kand.med.nauk; POGREBNYAK, B.A.

Apparatus for determining the rotary motion and strength of the hip joint. Ortop.travm. i protez. 20 no.2:44-47 F '59. (MIRA 12:12)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii im. M.I. Stenko (dir. - chlen-korrespondent AMN SSSR prof. N.P. Novachenko). (HIP, physiol. rotary motion & strength of joint rotators, appar. for determ. (Rus))

NEDRIGAYLOVA, O.V., prof.; POGREBNYAK, B.A., kand.med.nauk

Indications for arthrodesis of the hip joint in patients with sequelae of poliomyelitis. Ortop., travm. i protez. 24 no.10; 3-11 0 '63. (MIRA 17:5)

1. Iz otdela patomekhaniki (zav. - prof. O.V.Nedrigaylova)
Ukrainskogo instituta ortopedii i travmatologii imeni M.I.Sitenko
(dir. - chlen-korrespondent AMN SSSR prof. N.P.Novachenko).
Adres avtorov: Khar'kov, Pushkinskaya ul., d.80, Institut
ortopedii i travmatologii.

POGREBNYAK, B.A., kand. med. nauk

DEFERONSHIP TO THE SECOND TO

Analysis of the results of compound treatment of dropfoct following poliomyelitis. Ortop., travm. 1 protez. 25 no.2:29-39 F 164.

(MIRA 18:1)

1. Iz otdela fiziologii i patomekhaniki oporno-dvigatelinoro apparata (zav. - prof. 0.V.Nedrigaylova) Ukrainskogo instituta ortopedii i travmatologii imeni M.I.Sitenko (direktor - chlen-korrespondent AMN SSSR prof. N.P.Novachenko). Adres avtora: Kharikov: Pushkinskaya ul., d. 80, Institut ortopedii i travmatologii.

POGREBNYAK, B. A. Cand Med Sci — (diss) "Strength and Bioelectrical Activity of Muscles of the Lower Extremities in the Normal Person and in Patients Suffering from the After-effects of Poliomyelitis," Khar'kov, 1960, 21 pp, 250 copies (Khar'kov State Aedical Institute) (KL, 49/60, 129)

1. 22525-65 EHT(1)/EWA(h) Peb

ACCESSION NR: AP5001552

8/0185/64/009/012/1318/1322

AUTHOR: Pogrebnyak, B. I.

TITLE: Frequency multiplication with the aid of a spark gas discharge at 6.5 mm

wavelength

SOURCE: Ukrayins'kyy fizychny; zhurnal, v. 9, no. 12, 1964, 1918-1322

TOPIC TAGS: millimeter wave generator, hermonic oscillator, frequency multiplication, spark discharge, high frequency discharge

ABSTRACT: The author describes results of frequency multiplication experiments performed at 6.5 mm wavelength in analogy with earlier work in the 3.2 cm band. Figure 1 of the enclosure shows the multiplier construction used, in which best matching was attained between the internal resistance of the magnetron and the low-resistance discharge gap. Several other constructions with quarter-wave matching transformer, and with H-section and rectangular waveguides were tried. The test procedure is described briefly. Frequency doubling with a conversion loss of 45 dB was attained at pressures ranging from 400 to 760 mm Hg (in air).

Cord 1/10